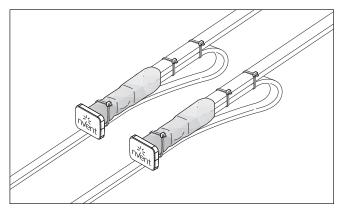


# **FTC-HST-PLUS**

## XL-Trace Edge, RaySol, WFP, GM, HWAT and IceStop Splice/Tee **Connection Installation Instructions**



### APPROVALS

**US LISTED** 

LISTED With Raysol, Icestop

with IceStop cable -WS with HWAT -G with Raysol -W

**KIT CONTENTS** 

Item	Qty	Description
A	4	Insulated bus wire crimps
В	4	Uninsulated braid crimps; 2 large, 2 small
С	6	Cable ties
D	16	Mastic strips
E	2	End plugs
F	2	Heat-shrinkable tubes (5 in long, 1.5 inch diameter)
G	2	Black cloth tapes (6 in long)
Н	2	Clamp tie

## / WARNING:

This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Bus wires will short if they contact each other. Keep bus wires separated
- Keep components and heating cable ends dry before and during installation.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Component approvals and performance are based on the use of nVent-specified parts only. Do not use substitute parts or vinyl electrical tape.
- Leave these instructions with end user for reference and future use.

#### DESCRIPTION

The nVent RAYCHEM FTC-HST-PLUS is for use with heating cables to make splice and tee connections. The kit contains materials for two splice or two tee connections. An nVent RAYCHEM RavClic-E end seal or WHES end seal for nVent RAYCHEM RIM systems is required when using FTC-HST-PLUS as a tee kit. These installation instructions should be used in conjunction with the nVent RAYCHEM XL-Trace Edge, RaySol, WFP, HWAT and IceStop Installation and Operation Manuals. For technical support, contact your nVent representative or call nVent at (800) 545-6258.

Needle nose pliers

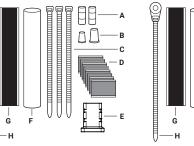
#### **TOOLS REQUIRED**

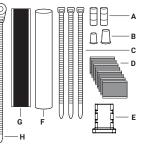
- Diagonal cutters
- Utility knife
  - Heat gun or torch Crimp tools (Ideal 30-429 and T&B WT112M or WT2000)
- Hammer and nail (for gutter/downspout applications only)

**IMPORTANT:** First verify heating cable is appropriate for the application. The cable type is printed on the outer jacket:

IceStop and WFP:	Roof and gutter de-icing
XL-Trace Edge:	Above ground pipe freeze protection
RaySol:	Floor warming
HWAT:	Hot water temperature maintenance

The minimum installation temperature for the FTC-HST-PLUS splice and tee is 0°F (-18°C).





### ▲ CAUTION:

HEALTH HAZARD: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult SDS at nVent.com for further information.

CHEMTREC 24-hour emergency telephone: (800) 424-9300

Non-emergency health and safety information: (800) 545-6258



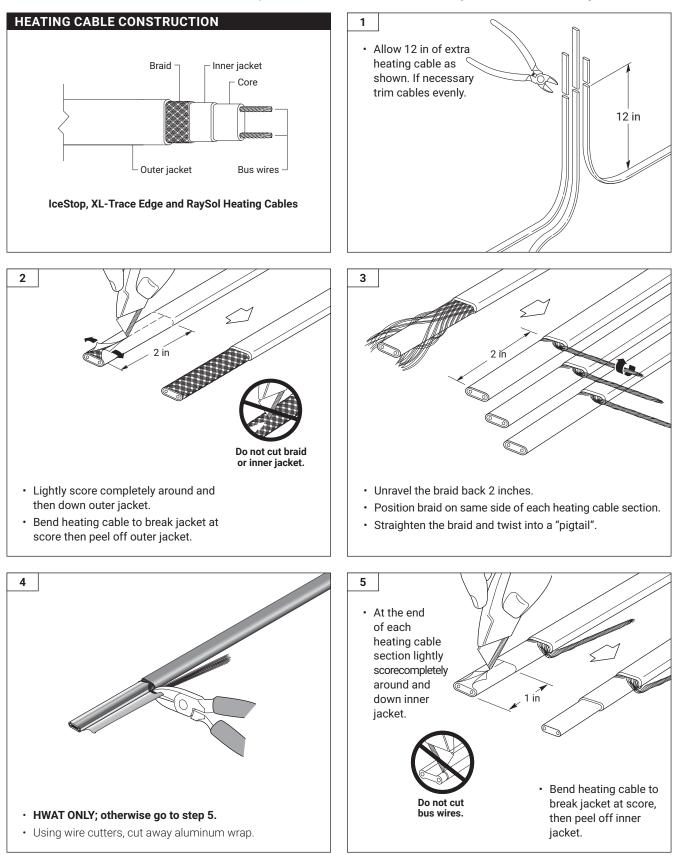


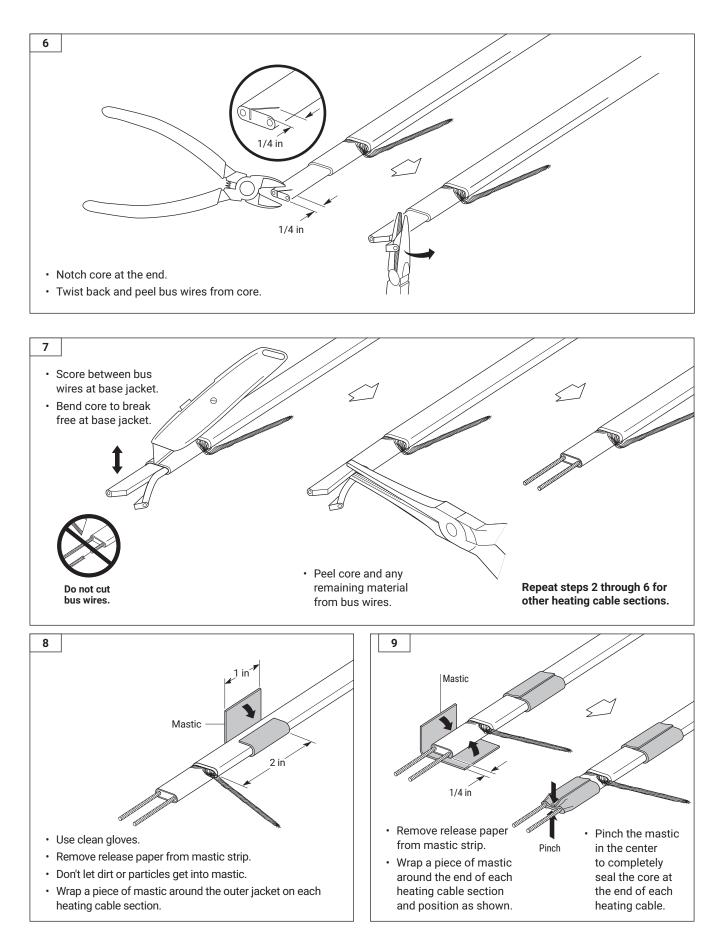
RAY3122

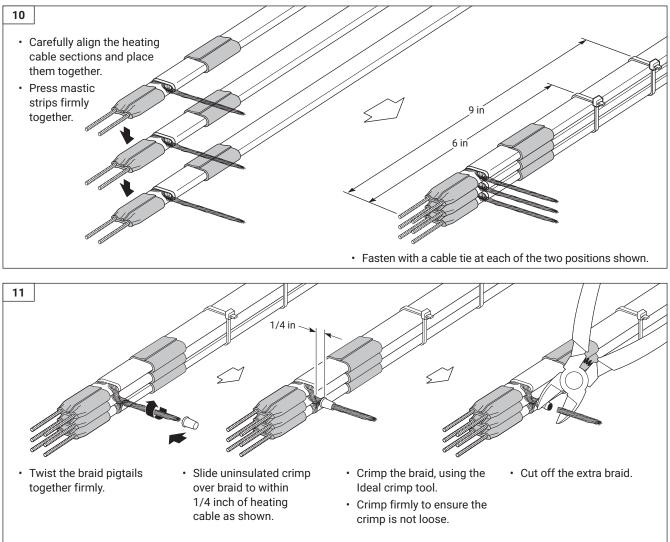
**ITCSN** 

#### XL-Trace Edge, RaySol, WFP, GM and IceStop Splice or Tee Connections

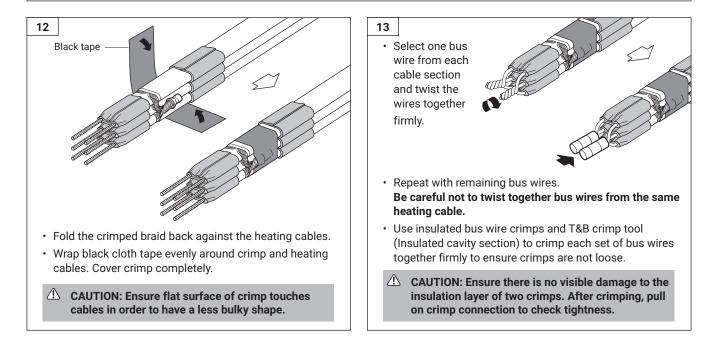
The instructions are shown for a tee connection. Splice connections are done the same way, without the third heating cable section.

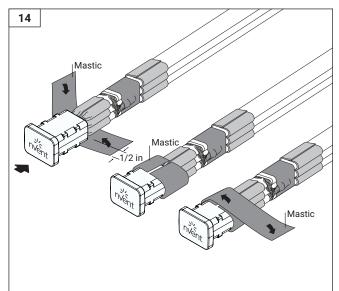




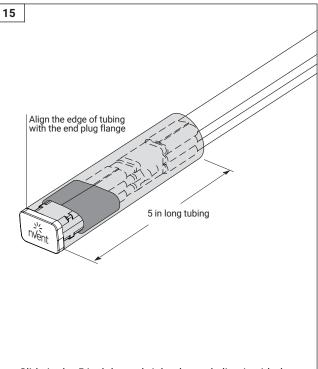


Note: Use the large crimp for the HWAT cables and the small crimp for the other cables.

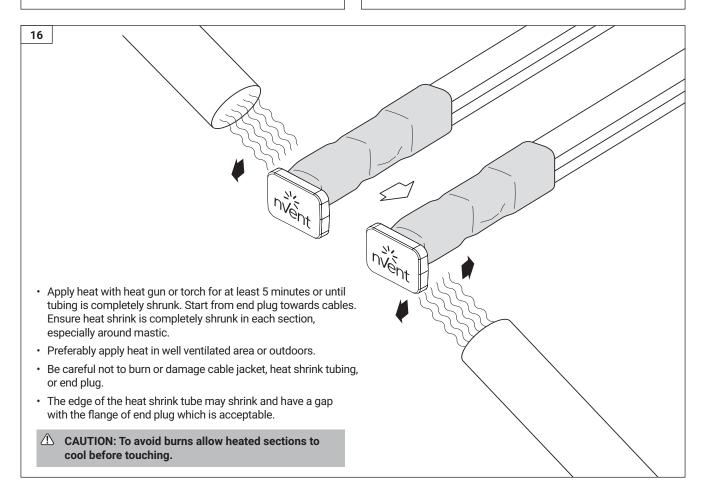


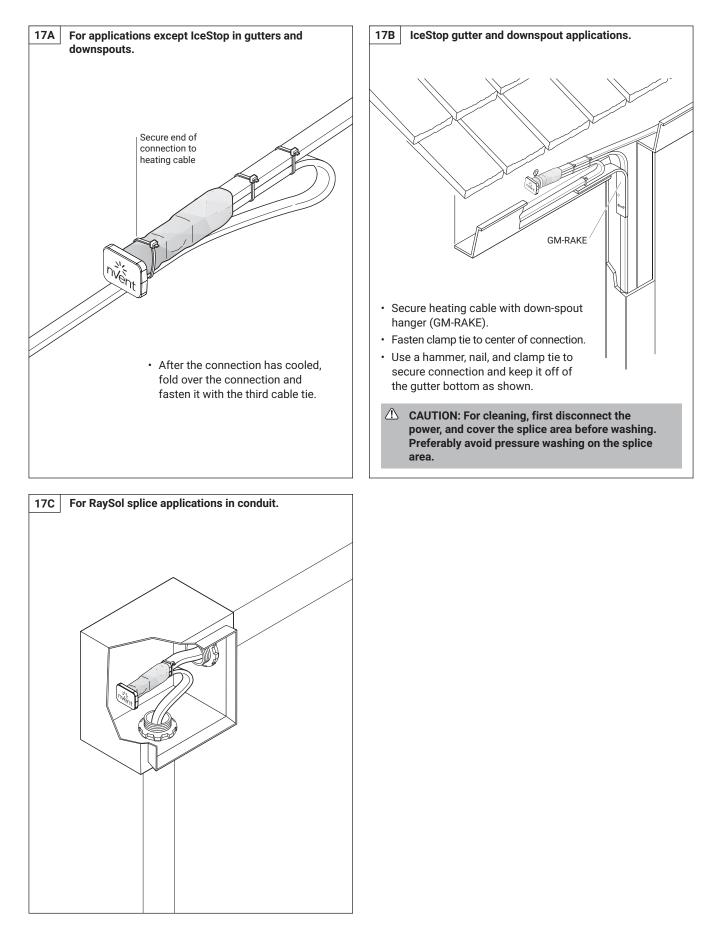


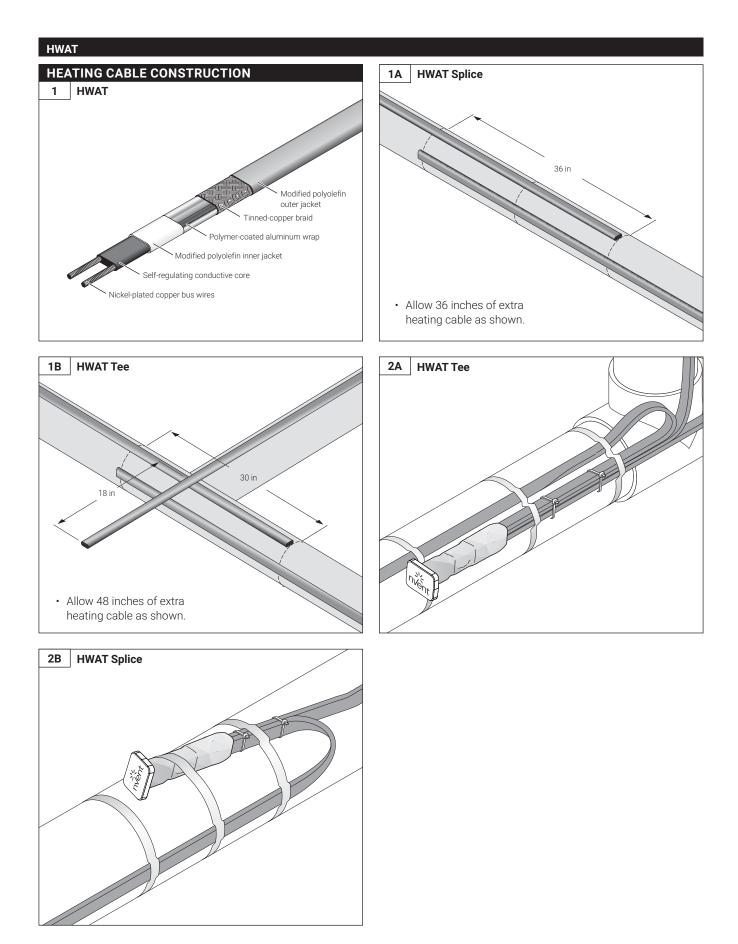
- First check that there are no cracks or damage to end plug. Slide end plug over bus wire crimps all the way and push firmly toward mastic.
- Wrap one piece of mastic around open end of end plug so half of width covers end of plug and half covers cables.
- Apply second piece of mastic like the first one to completely cover end of plug. Press mastic pieces together and into plug and wire mastic pieces.



• Slide in the 5 inch heat shrink tube and align it with the flange of end plug, then start heating by a heat gun from the end plug toward the cables.







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